

## ABSTRACT

A programmable switching device that employs a Hall Effect sensor and a moving magnet is disclosed. The Hall Effect sensor is electrically connected to a programmable microprocessor that is programmed to detect changes in Hall Effect voltages at the sensor. The programmable switching device may also be configured as a rotary switching device. By using a plurality of magnets and Hall Effect transducers and orienting some magnets with their polarities in different directions, a temper-proof switch can be achieved. The programmable switching device may be connected to a serial bus that is interfaced with an elevator controller.